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1 Edge subdivision schemes and the construction of smooth vector fields
Ke Wang, Weiwei, Yiying Tong, Mathieu Desbrun, Peter Schröder
July 2006   **SIGGRAPH '06:** SIGGRAPH 2006 Papers
Publisher: ACM

Full text available: 🎬 Mov (20:22 MIN), 📄 Pdf (642.83 KB) Additional Information: full citation, abstract, refere
                                                                         index terms

Bibliometrics: Downloads (6 Weeks): 12,   Downloads (12 Months): 139,   Citation Count: 2

Vertex- and face-based subdivision schemes are now routinely used in geometric model
computational science, and their primal/dual relationships are well studied. In this paper
interpret these schemes as defining bases for *discrete differential* ...

Keywords: *discrete differential geometry, discrete exterior calculus, smooth surface m*
subdivision, vector fields

Also published in:
   July 2006 **Transactions on Graphics (TOG)** Volume 25 Issue 3

2 Modified subdivision surfaces with continuous curvature
Adi Levin
July 2006   **SIGGRAPH '06:** SIGGRAPH 2006 Papers
Publisher: ACM

Full text available: 🎬 Mov (22:1 MIN), 📄 Pdf (593.62 KB) Additional Information: full citation, abstract, referer
                                                                         index terms

Bibliometrics: Downloads (6 Weeks): 18,   Downloads (12 Months): 124,   Citation Count: 2

We present a modification to subdivision surfaces, which guarantees second-order smoo
everywhere in the surface, including extraordinary points. The idea is to blend the limit
a low degree polynomial defined over the characteristic ...

Keywords: curvature continuity, subdivision surfaces

Also published in:
   July 2006 **Transactions on Graphics (TOG)** Volume 25 Issue 3

3 Near-optimal parameterization of the intersection of quadrics
Laurent Dupont, Daniel Lazard, Sylvain Lazard, Sylvain Petitjean
June 2003   **SCG '03:** Proceedings of the nineteenth annual symposium on Computational g
Publisher: ACM

Full text available: Pdf (322.08 KB)   Additional Information: full citation, abstract, references, cited by, index review

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 50,   Citation Count: 6

In this paper, we present the first exact, robust and practical method for computing an representation of the intersection of two arbitrary quadrics whose coefficients are ration results from the theory of quadratic forms, linear ...

Keywords: quadric surface intersection, robustness of geometric computations

4 Introduction to genetic programming
John R. Koza
July 2007   **GECCO '07:** Proceedings of the 2007 GECCO conference companion on Genetic evolutionary computation
Publisher: ACM
Full text available: Pdf (1.51 MB)   Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 24,   Downloads (12 Months): 343,   Citation Count: 0

5 Accurate approximate solution of partial differential equations at off-mesh points
W. H. Enright
June 2000   **Transactions on Mathematical Software (TOMS)** , Volume 26 Issue 2
Publisher: ACM
Full text available: Pdf (199.29 KB)   Additional Information: full citation, abstract, references, cited by, index

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 40,   Citation Count: 2

Numerical methods for partial differential equations often determine approximations tha accurate at the set of discrete meshpoints than they are at the "off-mesh" points in the interest. These methods are generally most ...

Keywords: collocation, rendering, scientific visualization

6 Computational algebra and algebraic curves
Tanush Shaska
December 2003 **SIGSAM Bulletin** , Volume 37 Issue 4
Publisher: ACM
Full text available: Pdf (105.33 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 44,   Citation Count: 0

The development of computational techniques in the last decade has made possible to a classical problems of algebraic geometry. In this survey, we briefly describe some open related to algebraic curves which can be approached from ...

7 Intersecting quadrics: an efficient and exact implementation
S. Lazard, L. M. Peñaranda, S. Petitjean
June 2004   **SCG '04:** Proceedings of the twentieth annual symposium on Computational ge
Publisher: ACM
Full text available: Pdf (411.98 KB)   Additional Information: full citation, abstract, references, cited by, index

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 43,   Citation Count: 4

We present the first complete, exact and efficient C++ implementation of a method for parameterizing the intersection of two implicit quadrics with integer coefficients of arbitr based on the near-optimal algorithm recently introduced ...

Keywords: C++ implementation, experimental analysis, intersection of quadrics

8 Closed form solution for optimal buffer sizing using the Weierstrass elliptic function
Sebastian Vogel, Martin D. F. Wong
January 2006 **ASP-DAC '06:** Proceedings of the 2006 conference on Asia South Pacific desi(automation
Publisher: IEEE Press
Full text available: Pdf (215.96 KB)   Additional Information: full citation, abstract, references, index term

Bibliometrics: Downloads (6 Weeks): 0,   Downloads (12 Months): 16,   Citation Count: 0

This paper presents a fundamental result on buffer sizing. Given an interconnection wire buffers evenly spaced along the wire, we would like to size all buffers such that the Elmi minimized. It is well known that the problem ...

9 Scalar fused multiply-add instructions produce floating-point matrix arithmetic prova to the penultimate digit
Yves Nievergelt
March 2003 **Transactions on Mathematical Software (TOMS)** , Volume 29 Issue 1
Publisher: ACM
Full text available: Pdf (219.83 KB)   Additional Information: full citation, abstract, references, cited by, i

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 56,   Citation Count: 4

Combined with doubly compensated summation, scalar fused multiply-add instructions r concept of floating-point arithmetic, because they allow for the computation of sums of complex matrix products accurate to the penultimate digit. ...

Keywords: Doubly compensated summation, floating-point arithmetic, fused multiply-a instruction, matrix arithmetic, provable accuracy, rounding error

10 The NP-completeness column
David S. Johnson
July 2005   **Transactions on Algorithms (TALG)** , Volume 1 Issue 1
Publisher: ACM
Full text available: Pdf (153.13 KB)   Additional Information: full citation, abstract, references, index term

Bibliometrics: Downloads (6 Weeks): 24,   Downloads (12 Months): 240,   Citation Count: 2

This is the 24th edition of a column that covers new developments in the theory of NP-c The presentation is modeled on that which M. R. Garey and I used in our book "Comput(Intractability: A Guide to the Theory of NP-Completeness," ...

Keywords: NP-completeness, coding theory, lattice bases, open problems, perfect grap testing

11

Three-dimensional human display model
T. E. Potter, K. D. Willmert
April 1975   **SIGGRAPH '75:** Proceedings of the 2nd annual conference on Computer graph
            interactive techniques
Publisher: ACM
Full text available: Pdf (185.67 KB)   Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 33,   Citation Count: 3

A two-dimensional computer graphic display of a three-dimensional model depicting a h
is presented. The major body segments of the model are represented as non-uniform el
cylinders. The shadow outlines of these cylinders are displayed ...

Also published in:
    April 1975 **SIGGRAPH Computer Graphics** Volume 9 Issue 1

12 Algebraic surface design with Hermite interpolation
Chanderjit L. Bajaj, Insung Ihm
January 1992 **Transactions on Graphics (TOG)** , Volume 11 Issue 1
Publisher: ACM
Full text available: Pdf (8.01 MB)   Additional Information: full citation, abstract, references, cited by, i
                                                                review

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 64,   Citation Count: 11

This paper presents an efficient algorithm called Hermite interpolation, for constructing I
algebraic surfaces, which contain, with C1 or tangent plane continuity, any given collect
and algebraic ...

Keywords: Algebraic surface, Hermite interpolation, computer-aided geometric design,
continuity, linear systems

13 ANTS VI: algorithmic number theory symposium poster abstracts
Ilias Kotsireas, Emil Volcheck
September 2004 **SIGSAM Bulletin** , Volume 38 Issue 3
Publisher: ACM
Full text available: Pdf (435.21 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 26,   Citation Count: 0

The Algorithmic Number Theory Symposium (ANTS) meetings are held bianually since 1
have become the premier international forum for the presentation of new research in Cc
Number Theory. Previous ANTS conferences have been held as follows: ...

14 Power scheduling for wireless sensor and actuator networks
Christopher J. Rozell, Don H. Johnson
April 2007   **IPSN '07:** Proceedings of the 6th international conference on Information proce
            sensor networks
Publisher: ACM
Full text available: Pdf (636.13 KB)   Additional Information: full citation, abstract, references, index terr

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 158,   Citation Count: 0

We previously presented a model for some wireless sensor and actuator network (WSAN

applications based on the vector space tools of frame theory. In this WSAN model there associated to each sensor-actuator link denoting the importance of ...

Keywords: frame theory, optimization, power scheduling, wireless sensor and actuator